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- 23. A compound of the formula:

$$R^2$$
 R^3
 R^4
 R^1
 R^4
 R^4
 R^4

wherein

A is selected from the group consisting of: a direct bond, $-SO_2$ -, $-NHSO_2$ -, -(C=O)-, -(C=S)-, $-NR^5(C=O)$ -, -O(C=O)-, and $-C(R^6R^7)(C=O)$ -, wherein R_5 , R_6 , and R_7 are independently selected from the group consisting of hydrogen and lower alkyl;

D is selected from the group consisting of: $-SO_2-$, -(C=O)-, and -(C=S)-;

E is selected from the group consisting of: C_1 – C_{10} hydrocarbon, substituted aryl, heterocyclyl, and substituted heterocyclyl;

X is selected from the group consisting of: -O-, -S-, -NR⁸-, and -N(R⁸)(C=O)- wherein R⁸ is selected from the group consisting of: absent, hydrogen, and lower alkyl;

is a single bond, or in the alternative, when X is NR⁸ wherein R⁸ is absent, is a double bond;

R¹ is selected from the group consisting of C₁–C₂₀ alkyl, aryl, alkylaryl, substituted alkylaryl, C₁–C₁₀ alkyloxy, C₃–C₁₀ oxaalkyl, aryloxy, substituted aryl, substituted aryloxy, heterocyclyl, and heterocyclyloxy;

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 R^2 is selected from the group consisting of: C_1 – C_{10} hydrocarbon, substituted aryl, and heterocyclyl; and

R³ and R⁴ are independently selected from the group consisting of: C₁–C₂₀ alkyl, C₁–C₁₀ hydrocarbon, aryl, substituted aryl, alkylaryl, substituted alkylaryl, heterocyclyl, and substituted heterocyclyl; or, in the alternative, R³ and R⁴ taken together with the carbon atoms to which they are attached form a cyclic moiety selected from the group consisting of: aryl and substituted aryl.

- 24. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to claim 23, or a pharmaceutically acceptable salt or solvate thereof.
- 25. A pharmaceutical composition according to claim 24, further comprising at least one additional antiviral agent.

